

(data and management and system and call and monitor and characteristics)

Published from January 1947 to December 2002

Terms used: [data](#) [management](#) [system](#) [call](#) [monitor](#) [characteristics](#)

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### 1 [Active database systems](#)



Norman W. Paton, Oscar Díaz

March 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 1

Publisher: ACM

Full text available:  [pdf\(2.68 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 589, Citation Count: 33

Active database systems support mechanisms that enable them to respond automatically to events that are taking place either inside or outside the database system itself. Considerable effort has been directed towards improving understanding of such systems ...

Keyw ords: active databases, events, object-oriented databases, relational databases

### 2 [System architecture directions for networked sensors](#)



Jason Hill, Robert Szewczyk, Alec Woo, Seth Hollar, David Culler, Kristofer Pister

November 2000 ASPLOS-IX: Proceedings of the ninth international conference on Architectural support for programming languages and operating systems

Publisher: ACM

Full text available:  [pdf\(299.01 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 364, Citation Count: 323

Technological progress in integrated, low-power, CMOS communication devices and sensors makes a rich design space of networked sensors viable. They can be deeply embedded in the physical world and spread throughout our environment like smart dust. The ...

### 3 [Application-driven power management for mobile communication](#)

Robin Kravets, P. Krishnan

July 2000 Wireless Networks, Volume 6 Issue 4

Publisher: Kluwer Academic Publishers


Full text available:  [pdf\(301.68 KB\)](#) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 127, Citation Count: 20

4 The utilization of artificial intelligence in a hybrid intrusion detection system

Martin Botha, Rossouw von Solms, Kent Perry, Edwin Loubser, George Yamoyany  
September 2002 SAI CSI T '02: Proceedings of the 2002 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology

Publisher: South African Institute for Computer Scientists and Information Technologists

Full text available:  pdf(161.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 326, Citation Count: 1

Computer security, and intrusion detection in particular, have become increasingly important in today's business environment, to ensure safe and trusted commerce between business partners as well as effective organisational functioning. Various approaches ...

Keyw ords: fuzzy logic, intrusion detection, intrusion detection systems, neural network, pattern recognition

5 T.LoADS abbreviated systems architeclure

Bob Hamber

December 2001 WSC '01: Proceedings of the 33nd conference on Winter simulation

Publisher: IEEE Computer Society

Full text available:  pdf(264.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 23, Citation Count: 1

The Tactical Logistics Distribution System (T.LoADS or TLoADS) is a powerful and flexible simulation application for assessing current or future tactical or sea-based distribution systems. In its current state of development, it is an analytical model ...

6 Designing concurrent and distributed control systems



Amund Aarsten, Davide Brugali, Giuseppe Menga

October 1996 Communications of the ACM, Volume 39 Issue 10

Publisher: ACM

Full text available:  pdf(256.61 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 55, Citation Count: 5

7 Applying policy management to reduce support costs for remote and mobile computing

Russell J. Sharer

July 1998 International Journal of Network Management, Volume 8 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(68.99 KB) Additional Information: [full citation](#), [abstract](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 55, Citation Count: 1



Remote access to networks has become a standard part of corporate networks worldwide, and one that is growing rapidly. How are network managers to respond to this growth without a corresponding increase in resources? © 1998 by John Wiley & Sons, ...

8 The specification and testing of quantified progress properties in distributed systems

Prakash Krishnamurthy, Paolo A. G. Sivilotti

July 2001 ICSE '01: Proceedings of the 23rd International Conference on Software Engineering

Publisher: IEEE Computer Society

Full text available:  pdf(149.64 KB);  Publisher Site Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 22, Citation Count: 1

*There are two basic parts to the behavioral specification of distributed systems: safety and progress. In earlier work, we developed a tool to monitor progress properties of CORBA components specified using the temporal operator transient. In ...*

## 9 [A functional model of cooperative system management](#)

Bharat Bhushan, Ahmed Patel

May 1998 International Journal of Network Management, Volume 8 Issue 3

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(121.15 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 71, Citation Count: 0

There is a need for information exchange and communication between management applications that are distributed over a large system. In this situation, a fundamental problem is how the management systems should cooperate in order to achieve overall management ...

## 10 [Designing and implementing QoS management of the web](#)

Maksim A. Aleksandrov, Vladislav S. Voinov

November 1998 CASCON '98: Proceedings of the 1998 conference of the Centre for Advanced Studies on Collaborative research


Publisher: IBM Press

Full text available:  pdf(188.73 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 88, Citation Count: 1

This paper summarizes our efforts taken to challenge the issues of management systems that perform control over explicitly given expectations on service quality of the Web-based systems. Goals and principles of management, Quality of Service (QoS) metrics ...

## 11 [High-speed distributed data handling for on-line instrumentation systems](#)

 William E. Johnston, William Greiman, Gary Hoo, Jason Lee, Brian Tierney, Craig Tull, Douglas Olson

November 1997 Supercomputing '97: Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: ACM

Full text available:  pdf(438.36 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 21, Citation Count: 1

The advent (and promise) of shared, widely available, high-speed networks provides the potential for new approaches to the collection, organization, storage, and analysis of high-speed and high-volume data streams from high data-rate, on-line instruments. ...

Cost reduction in location management using semi-realtime movement information

Guang Wan, Eric Lin

July 1999 *Wireless Networks*, Volume 5 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  pdf(191.60 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 23, Citation Count: 9

This paper introduces a dynamic paging scheme based on the semi-realtime movement information of an individual user, which allows a more accurate predication of the user location at the time of paging. In general, a realtime location tracking scheme ...

13 Separating access control policy, enforcement, and functionality in extensible systems



Robert Grimm, Brian N. Bershad

February 2001 *ACM Transactions on Computer Systems (TOCS)*, Volume 19 Issue 1

Publisher: ACM

Full text available:  pdf(164.03 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 292, Citation Count: 3

Extensible systems, such as Java or the SPIN extensible operating system, allow for units of code, or extensions, to be added to a running system in almost arbitrary fashion. Extensions closely interact through low-latency but type-safe interfaces to ...

Keyw ords: Java, SPIN, access check, auditing, extensible systems, policy-neutral enforcement protection domain, protection domain transfer, security policy

14 An analysis of operating system behavior on a simultaneous multithreaded architecture



Joshua A. Redstone, Susan J. Eggers, Henry M. Levy

November 2000 *ASPLOS-IX: Proceedings of the ninth international conference on Architectural support for programming languages and operating systems*

Publisher: ACM

Full text available:  pdf(227.80 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 121, Citation Count: 8

This paper presents the first analysis of operating system execution on a simultaneous multithreaded (SMT) processor. While SMT has been studied extensively over the past 6 years, previous research has focused entirely on user-mode execution. However, ...

15 An efficient and lightweight embedded Web server for Web-based network element management

Hong-Taek Ju, Mi-Joung Choi, James W. Hong

September 2000 *International Journal of Network Management*, Volume 10 Issue 5

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(428.26 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 216, Citation Count: 1

An Embedded Web Server &lpar;EWS&rpar; is a Web server which runs on an embedded system with limited computing resources to serve embedded Web documents to a Web browser. By embedding a Web server into a network device, it is possible to provide a Web&hyphen;based ...

16 Assessment of potential gains in productivity due to proactive reticle management using discrete event simulation



Sungmin Park, John Fowler, Matt Carlyle, Matt Hickie

December 1999 WSC '99: Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 1, Volume 1

Publisher: ACM

Full text available: pdf(121.69 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 21, Citation Count: 0

17 The MONARC toolset for simulating large network-distributed processing systems

Iosif C. Legrand, Harvey B. Newman

December 2000 WSC '00: Proceedings of the 32nd conference on Winter simulation

Publisher: Society for Computer Simulation International

Full text available: pdf(467.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 13, Citation Count: 1

The next generation of High Energy Physics experiments have envisaged the use of network-distributed Petabyte-scale data handling and computing systems of unprecedented complexity. The general concept is that of a "Data Grid Hierarchy" in which the central ...

18 A distributed graphics system for large tiled displays

Greg Humphreys, Pat Hanrahan

October 1999 VIS '99: Proceedings of the conference on Visualization '99: celebrating ten years

Publisher: IEEE Computer Society Press

Full text available: pdf(2.14 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 80, Citation Count: 32

Recent interest in large displays has led to renewed development of tiled displays, which are comprised of several individual displays arranged in an array and used as one large logical display. Stanford's "Interactive Mural" is an example ...

19 Performance and dependability evaluation of scalable massively parallel computer systems with conjoint simulation



Axel Hein, Mario Dal Cin

October 1998 ACM Transactions on Modeling and Computer Simulation (TOMACS), Volume 8 Issue 4

Publisher: ACM

Full text available: pdf(501.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 87, Citation Count: 2

Computer systems are becoming more and more a part of our daily life; business and industry rely on their service, and the health of human beings depends on their correct functioning. Computer systems used for critical tasks have to be carefully designed ...

Keywords: fault-tolerant and large-scale computer systems, hierarchical model design, object-

oriented modeling, process-based simulation, timed Petri nets


20 [On supporting containment queries in relational database management systems](#)



Chun Zhang, Jeffrey Naughton, David DeWitt, Qiong Luo, Guy Lohman

May 2001 SIGMOD '01: Proceedings of the 2001 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available:  [pdf\(223.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 115, Citation Count: 98

Virtually all proposals for querying XML include a class of query we term "containment queries". It is also clear that in the foreseeable future, a substantial amount of XML data will be stored in relational database systems. This raises ...

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### 1 [Role delegation in role-based access control](#)



SangYeob Na, SuhHyun Cheon

July 2000 RBAC '00: Proceedings of the fifth ACM workshop on Role-based access control

Publisher: ACM

Full text available: [pdf\(105.05 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 138, Citation Count: 1

Keyw ords: active delegation, delegation protocol, delegation server, passive delegation, role delegation, role-based access control

### 2 [Using AutoMed metadata in data warehousing environments](#)



Hao Fan, Alexandra Poulouvasilis

November 2003 DOLAP '03: Proceedings of the 6th ACM international workshop on Data warehousing OLAP

Publisher: ACM

Full text available: [pdf\(271.41 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 161, Citation Count: 0

What kind of metadata can be used for expressing the multiplicity of data models and the data transformation and integration processes in data warehousing environments? How can this metadata be further used for supporting other data warehouse activities? ...

Keyw ords: data integration, data warehouse, metadata

### 3 [Enabling power management for network-attached computers](#)

Kenneth J. Christensen, Franklin 'Bo' Gullledge

March 1998 International Journal of Network Management, Volume 8 Issue 2

Publisher: John Wiley & Sons, Inc.

Full text available: [pdf\(134.70 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 47, Citation Count: 1


Power management is an emerging area of interest for network management. This article reviews current developments and describes methods for enabling power management in network-attached computers. © 1998 John Wiley & Sons, Ltd.

4 [Predicting indirect branches via data compression](#)

John Kalamatianos, David R. Kaeli

November 1998 MICRO 31: Proceedings of the 31st annual ACM/IEEE international symposium on Microarchitecture


Publisher: IEEE Computer Society Press

Full text available:  [pdf\(1.24 MB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 18, Citation Count: 5

5 [Assessing data quality in accounting information systems](#)

 David Kaplan, Ramayya Krishnan, Rema Padman, James Peters

February 1998 Communications of the ACM, Volume 41 Issue 2


Publisher: ACM

Full text available:  [pdf\(249.94 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#), [review](#)


Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 277, Citation Count: 6

6 [Disk scheduling policies with lookahead](#)

 Alexander Thomasian, Chang Liu

September 2002 ACM SIGMETRICS Performance Evaluation Review, Volume 30 Issue 2

Publisher: ACM

Full text available:  [pdf\(1.08 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 70, Citation Count: 2

Advances in magnetic recording technology have resulted in a rapid increase in disk capacities, improvements in the mechanical characteristics of disks have been quite modest. For example the access time to random disk blocks has decreased by a mere ...

Keywords: LOOK, SATF, SCAN, disk scheduling, scheduling policies with lookahead, simulation

7 [Comparison of access methods for time-evolving data](#)

 Betty Salzberg, Vassilis J. Tsotras

June 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 2

Publisher: ACM

Full text available:  [pdf\(529.53 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 238, Citation Count: 47

This paper compares different indexing techniques proposed for supporting efficient access to the data. The comparison is based on a collection of important performance criteria, including the space consumed, update processing, and query time for ...

Keywords: I/O performance, access methods, structures, temporal databases


8 [An optimal service policy for buffer systems](#)

 Alexander Birman, H. Richard Gail, Sidney L. Hantler, Zvi Rosberg, Moshe Sidi

May 1995 Journal of the ACM (JACM), Volume 42 Issue 3

Publisher: ACM



Full text available:  pdf(1.10 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)  
[review](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 36, Citation Count: 5

Consider a switching component in a packet-switching network, where messages from several incoming channels arrive and are routed to appropriate outgoing ports according to a service policy. One requirement in the design of such a system is to determine ...

Keywords: buffer overflow, gradual input, multiplexor, parallel queues, service discipline, switch

## 9 [Optimization flow control—I: basic algorithm and convergence](#)

Steven H. Low, David E. Lapsley

December 1999 IEEE/ACM Transactions on Networking (TON), Volume 7 Issue 6

Publisher: IEEE Press

Full text available:  pdf(360.19 KB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 228, Citation Count: 112

Keywords: asynchronous algorithm, congestion pricing, convergence, gradient projection, optimization flow control

## 10 [Issues in cache management algorithms for commercial software systems](#)



Prabuddha Biswas

October 1998 WOSP '98: Proceedings of the 1st international workshop on Software and performance

Publisher: ACM

Full text available:  pdf(260.85 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 18, Citation Count: 0

## 11 [Handling semantic heterogeneities using declarative agreements](#)



Isabel F. Cruz, Afsheen Rajendran, William Sunna, Nancy Wiegand

November 2002 GIS '02: Proceedings of the 10th ACM international symposium on Advances in geographic information systems

Publisher: ACM

Full text available:  pdf(251.71 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 47, Citation Count: 8

The focus of this paper is on interoperability issues to achieve data integration in distributed data for geographic applications. Our concrete application is in the context of the State of Wisconsin Information System (WLIS). In WLIS, data ...

Keywords: GIS interoperability, ontology, user interfaces for GIS

## 12 [Problems in the design of control procedures for computer networks](#)



Holger Opderbeck

April 1975 ACM SIGCOMM Computer Communication Review, Volume 5 Issue 2

Publisher: ACM

Full text available:  pdf(279.64 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 23, Citation Count: 1

This paper is one in a series of short papers highlighting research problems in the area of computer networks.


communication. Two previous papers have described problems in the design of data communication networks [CHOU 74] and selected research areas in computer ...

13 [Interaction of query evaluation and buffer management for information retrieval](#)

 Björn T. Jónsson, Michael J. Franklin, Divesh Srivastava

June 1998 ACM SIGMOD Record, Volume 27 Issue 2

Publisher: ACM

Full text available:  pdf(1.81 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 34, Citation Count: 8

The proliferation of the World Wide Web has brought information retrieval (IR) techniques to the forefront of search technology. To the average computer user, "searching" now means using IR-systems for finding information on the WWW ...

14 [Centralized directory services and accounts management project](#)

 Rob Murawski

October 2000 SIGUCCS '00: Proceedings of the 28th annual ACM SIGUCCS conference on User services: Building the future

Publisher: ACM


Full text available:  pdf(120.78 KB)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 58, Citation Count: 0



Keywords: authentication, directory service, public key infrastructure, security, single sign-on

15 [Using data mining to profile TV viewers](#)

 William E. Spangler, Mordechai Gal-Or, Jerrold H. May

December 2003 Communications of the ACM, Volume 46 Issue 12

Publisher: ACM


Full text available:  pdf(109.63 KB)  html(29.31 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 210, Citation Count: 2

Mining thousands of viewing choices and millions of patterns, advertisers and TV networks identify household characteristics, tastes, and desires to create and deliver custom targeted advertising.

16 [An access control language for web services](#)

 Emin Gün Sirer, Ke Wang

June 2002 SACMAT '02: Proceedings of the seventh ACM symposium on Access control models and technologies

Publisher: ACM

Full text available:  pdf(253.08 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 160, Citation Count: 8

This paper presents an approach for formally specifying and enforcing security policies on web service implementations. Networked services in general, and web services in particular, require extensive amounts of code to ensure that clients respect site-integrity ...

Keywords: access control, web services

17 [Selective perception policies for guiding sensing and computation in multimodal systems: a comparative analysis](#)



Nuria Oliver, Eric Horvitz

November 2003 I CMI '03: Proceedings of the 5th international conference on Multimodal interfaces

Publisher: ACM

Full text available: [pdf\(489.96 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 38, Citation Count: 1

Intensive computations required for sensing and processing perceptual information can impose significant burdens on personal computer systems. We explore several policies for selective perception in SEER, a multimodal system for recognizing office activity ...

Keywords: Hidden Markov models, automatic feature selection, expected value of information, behavior recognition, multi-modal interaction, office awareness, selective perception

18 [A framework architecture for supervision and control systems](#)



Riccardo Capobianchi, Alberto Coen-Porisini, Dino Mandrioli, Angelo Morzenti

March 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 1es

Publisher: ACM

Full text available: [pdf\(32.56 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 73, Citation Count: 1

19 [Inventory management simulations at Cat Logistics](#)

C. Ann Goodsell, Thomas J. Van Kley

December 2000 WSC '00: Proceedings of the 32nd conference on Winter simulation

Publisher: Society for Computer Simulation International

Full text available: [pdf\(2.13 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 106, Citation Count: 0

Simulation is used extensively by Caterpillar Logistics Services, Inc. (Cat Logistics) to determine appropriate strategy for achieving clients inventory and customer service goals. Internally develop inventory management simulations, at the transaction ...

20 [Feedback coupled resource allocation policies in the multiprogramming-multiprocessor computer system](#)



Richard S. Brice, J. C. Browne

December 1974 ACM SIGMETRICS Performance Evaluation Review, Volume 3 Issue 4

Publisher: ACM

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0





This paper presents model studies of some integrated feedback-driven scheduling systems for a multiprogrammed computer system. This abstract can present only the conclusions of the studies; little of the supporting data and detail. The basic format ...

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### 1 [Active database systems](#)

Norman W. Paton, Oscar Díaz  
March 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 1  
Publisher: ACM

Full text available: pdf(2.68 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)  
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Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 589, Citation Count: 33

Active database systems support mechanisms that enable them to respond automatically to events that are taking place either inside or outside the database system itself. Considerable effort has been directed towards improving understanding of such systems ...

Key words: active databases, events, object-oriented databases, relational databases

### 2 [A direct signaling system for flexible access and deployment of telecommunication service:](#)

Thomas F. La Porta, Kuo-Wei Herman Chen  
August 1997 IEEE/ ACM Transactions on Networking (TON), Volume 5 Issue 4  
Publisher: IEEE Press

Full text available: pdf(219.51 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 42, Citation Count: 0

Key words: ISDN, intellignet networks, signaling

### 3 [System architecture directions for networked sensors](#)

Jason Hill, Robert Szewczyk, Alec Woo, Seth Hollar, David Culler, Kristofer Pister  
November 2000 ASPLOS-IX: Proceedings of the ninth international conference on Architectural support for programming languages and operating systems  
Publisher: ACM

Full text available: pdf(299.01 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 364, Citation Count: 323


Technological progress in integrated, low-power, CMOS communication devices and sensors makes a rich design space of networked sensors viable. They can be deeply embedded in the physical world and spread throughout our environment like smart dust. The ...

4 [Application-driven power management for mobile communication](#)

Robin Kravets, P. Krishnan

July 2000 *Wireless Networks*, Volume 6 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(301.68 KB\)](#) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 127, Citation Count: 20

5 [A comparison of system monitoring methods, passive network monitoring and kernel instrumentation](#)



A. W. Moore, A. J. McGregor, J. W. Breen

January 1996 *ACM SIGOPS Operating Systems Review*, Volume 30 Issue 1

Publisher: ACM

Full text available:  [pdf\(1.89 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 73, Citation Count: 1


This paper presents the comparison of two methods of system monitoring, passive network monitoring and kernel instrumentation. The comparison is made on the basis of passive network monitoring being used as a replacement for kernel instrumentation in ...

6 [The utilization of artificial intelligence in a hybrid intrusion detection system](#)

Martin Botha, Rossouw von Solms, Kent Perry, Edwin Loubser, George Yamoyany

September 2002 *SAI CSI T '02: Proceedings of the 2002 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology*

Publisher: South African Institute for Computer Scientists and Information Technologists

Full text available:  [pdf\(161.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 326, Citation Count: 1

Computer security, and intrusion detection in particular, have become increasingly important in today's business environment, to ensure safe and trusted commerce between business partners well as effective organisational functioning. Various approaches ...



Keyw ords: fuzzy logic, intrusion detection, intrusion detection systems, neural network, patter recognition

7 [Performance and interoperability issues in incorporating cluster management systems with wide-area network-computing environment](#)

Sumalatha Adabala, Nirav H. Kapadia, José A. B. Fortes

November 2000 *Supercomputing '00: Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)*

Publisher: IEEE Computer Society

Full text available:  [pdf\(3.04 MB\)](#)  [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 33, Citation Count: 2

This paper describes the performance and interoperability issues that arise in the process of integrating cluster management systems into a wide-area network-computing environment, and

provides solutions in the context of the Purdue University Network ...

8 [T.LoADS abbreviated systems architecture](#)

Bob Hamber

December 2001 WSC '01: Proceedings of the 33nd conference on Winter simulation

Publisher: IEEE Computer Society

Full text available:  [pdf\(264.62 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 23, Citation Count: 1

The Tactical Logistics Distribution System (T.LoADS or TLoADS) is a powerful and flexible simulation application for assessing current or future tactical or sea-based distribution systems. In its current state of development, it is an analytical model ...

9 [The IBM data warehouse architecture](#)



Charles Bontempo, George Zagelow

September 1998 Communications of the ACM, Volume 41 Issue 9

Publisher: ACM

Full text available:  [pdf\(817.29 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 404, Citation Count: 5

10 [Fault-tolerance in air traffic control systems](#)



Flaviu Cristian, Bob Dancey, Jon Dehn

August 1996 ACM Transactions on Computer Systems (TOCS), Volume 14 Issue 3

Publisher: ACM

Full text available:  [pdf\(264.57 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 174, Citation Count: 5

The distributed real-time system services developed by Lockheed Martin's Air Traffic Management group serve the infrastructure for a number of air traffic control systems. Either completed development or under development are the US Federal Aviation ...

Keywords: exception handling, failure, failure classification, failure masking, failure semantics, tolerant systems, group communications, redundancy, server group, software robustness, system architecture

11 [Cost profile of a highly assured, secure operating system](#)



Richard E. Smith

February 2001 ACM Transactions on Information and System Security (TISSEC), Volume 4 Issue 1

Publisher: ACM

Full text available:  [pdf\(165.98 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 116, Citation Count: 3

The Logical Coprocessing Kernel (LOCK) began as a research project to stretch the state of the art in secure computing by trying to meet or even exceed the "A1" requirements of the Trusted Computing System Evaluation Criteria (TCSEC). Over ...

Keywords: LOCK (Logical Coprocessing Kernel), security kernels


12 [Media scaling for audiovisual communication with the Heidelberg transport system](#)

 Luca Delgrossi, Christian Halstrick, Dietmar Hehmann, Ralf Guido Herrtwich, Oliver Krone, Jochen Sandvoss, Carsten Vogt  
September 1993 MULTIMEDIA '93: Proceedings of the first ACM international conference on Multin  
Publisher: ACM

Full text available:  pdf(89.28 KB)  ps(145.16 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 25, Citation Count: 12

13 [Designing concurrent and distributed control systems](#)


 Amund Aarsten, Davide Brugali, Giuseppe Menga  
October 1996 Communications of the ACM, Volume 39 Issue 10  
Publisher: ACM

Full text available:  pdf(256.61 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 55, Citation Count: 5

14 [Applying policy management to reduce support costs for remote and mobile computing](#)

Russell J. Sharer  
July 1998 International Journal of Network Management, Volume 8 Issue 4  
Publisher: John Wiley & Sons, Inc.


Full text available:  pdf(68.99 KB) Additional Information: [full citation](#), [abstract](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 55, Citation Count: 1

Remote access to networks has become a standard part of corporate networks worldwide, and c that is growing rapidly. How are network managers to respond to this growth without a corresp increase in resources? © 1998 by John Wiley & Sons, ...

15 [Techniques and experiences with group support system implementation](#)

Stephen C. Hayne, Mark Pendergast  
October 1994 CASCON '94: Proceedings of the 1994 conference of the Centre for Advanced Studies  
Collaborative research  
Publisher: IBM Press

Full text available:  pdf(108.71 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 26, Citation Count: 0

This paper describes practical design and implementation techniques used for creating Group Su Systems (GSS) in networked PC environments. Examples of GSS based on the shared context n and implemented in Microsoft Windows are presented and experiences ...



Keywords: distributed computing, object oriented technology, software architecture

16 [The specification and testing of quantified progress properties in distributed systems](#)

Prakash Krishnamurthy, Paolo A. G. Sivilotti  
July 2001 ICSE '01: Proceedings of the 23rd International Conference on Software Engineering



Publisher: IEEE Computer Society

Full text available:  pdf(149.64 KB)  Publisher Site

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 22, Citation Count: 1

*There are two basic parts to the behavioral specification of distributed systems: safety and progress. In earlier work, we developed a tool to monitor progress properties of CORBA components specifying using the temporal operator transient. In ...*

## 17 [Middleware For Building Adaptive Systems Via Configuration](#)



Sanjai Narain, Ravichander Vaidyanathan, Stanley Moyer, William Stephens, Kirthika Parmeswaran, Abdul Rahim Shareef

August 2001 LOTES '01: Proceedings of the ACM SIGPLAN workshop on Languages, compilers and tools for embedded systems

Publisher: ACM

Full text available:  pdf(257.49 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 40, Citation Count: 1

COTS (commercial off-the-shelf) devices, including middleware components, are capable of executing powerful, distributed algorithms. Very large, adaptive systems can be created by simply integrating these devices, not by creating new devices, algorithms ...

Keywords: CORBA, QoS, configuration, diagnosis, middleware, network, private, provisioning, routing, security, service, virtual

## 18 [Using Write Protected Data Structures To Improve Software Fault Tolerance in Highly Available Database Management Systems](#)

Mark Sullivan, Michael Stonebraker

September 1991 VLDB '91: Proceedings of the 17th International Conference on Very Large Data Bases

Publisher: Morgan Kaufmann Publishers Inc.

Additional Information: [full citation](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 12

## 19 [A functional model of cooperative system management](#)

Bharat Bhushan, Ahmed Patel

May 1998 International Journal of Network Management, Volume 8 Issue 3

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(121.15 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 71, Citation Count: 0

There is a need for information exchange and communication between management applications that are distributed over a large system. In this situation, a fundamental problem is how the management systems should cooperate in order to achieve overall management ...

## 20 [Middleware For Building Adaptive Systems Via Configuration](#)



Sanjai Narain, Ravichander Vaidyanathan, Stanley Moyer, William Stephens, Kirthika Parmeswaran, Abdul Rahim Shareef

August 2001 OM '01: Proceedings of the 2001 ACM SIGPLAN workshop on Optimization of middleware and distributed systems

Publisher: ACM

Full text available:  pdf(257.49 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 40, Citation Count: 1

COTS (commercial off-the-shelf) devices, including middleware components, are capable of executing powerful, distributed algorithms. Very large, adaptive systems can be created by simply integrating these devices, not by creating new devices, algorithms ...





Keywords: CORBA, QoS, configuration, diagnosis, middleware, network, private, provisioning, routing, security, service, virtual

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(system and call and monitor and policy and tag and process)

Published from January 1947 to December 2002

Terms used: [system](#) [call](#) [monitor](#) [policy](#) [tag](#) [process](#)

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1 [Efficient policies for carrying Web traffic over flow-switched networks](#)

Ads

Anja Feldmann, Jennifer Rexford, Ramón Cáceres

December 1998 IEEE/ ACM Transactions on Networking (TON), Volume 6 Issue 6

Publisher: IEEE Press

Full text available:  [pdf\(209.39 KB\)](#) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 34, Citation Count: 24

Keyw ords: HTTP protocol, IP flows, Internet traffic characterization, routing, signaling, switching

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2 [An analysis of operating system behavior on a simultaneous multithreaded architecture](#)


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 Joshua A. Redstone, Susan J. Eggers, Henry M. Levy

November 2000 ASPLOS-IX: Proceedings of the ninth international conference on

Architectural support for programming languages and operating systems

Publisher: ACM

Full text available:  [pdf\(227.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 121, Citation Count: 8

This paper presents the first analysis of operating system execution on a simultaneous multithreaded (SMT) processor. While SMT has been studied extensively over the past 6 years, previous research has focused entirely on user-mode execution. However, ...

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3 [Multi-tasking and collaborative activities in dialogue systems](#)

Oliver Lemon, Alexander Gruenstein, Alexis Battle, Stanley Peters

July 2002 Proceedings of the 3rd SIGdial workshop on Discourse and dialogue -

Volume 2, Volume 2

Publisher: Association for Computational Linguistics

Full text available:  [pdf\(184.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)


Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 46, Citation Count: 1


We explain dialogue management techniques for collaborative activities with humans,

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involving multiple concurrent tasks. Conversational context for multiple concurrent activities is represented using a "Dialogue Move Tree" and an "Activity Tree" which ...

#### 4 Extending document management systems with user-specific active properties

 Paul Dourish, W. Keith Edwards, Anthony LaMarca, John Lamping, Karin Petersen, Michael Salisbury, Douglas B. Terry, James Thornton  
April 2000 ACM Transactions on Information Systems (TOIS), Volume 18 Issue 2  
Publisher: ACM


Full text available:  pdf(166.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 37, Downloads (12 Months): 344, Citation Count: 30

Document properties are a compelling infrastructure on which to develop document management applications. A property-based approach avoids many of the problems of traditional hierarchical storage mechanisms, reflects document organizations meaningful ...

Key words: active properties, component software, document management systems, document services, user experience

#### 5 Termination in language-based systems

 Algis Rudys, Dan S. Wallach  
May 2002 ACM Transactions on Information and System Security (TISSEC), Volume 5 Issue 2  
Publisher: ACM

Full text available:  pdf(365.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 34, Citation Count: 5

Language run-time systems are increasingly being embedded in systems to support run-time extensibility via mobile code. Such systems raise a number of concerns when the code running in such systems is potentially buggy or untrusted. Although sophisticated access ...

Key words: Applets, Internet, Java, resource control, soft termination, termination

#### 6 The Satchel system architecture: mobile access to documents and services

Mike Flynn, David Pendlebury, Chris Jones, Marge Eldridge, Mik Lamming  
December 2000 Mobile Networks and Applications, Volume 5 Issue 4  
Publisher: Kluwer Academic Publishers

Full text available:  pdf(207.51 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 66, Citation Count: 3

Mobile professionals require access to documents and document-related services, such as printing, wherever they may be. They may also wish to give documents to colleagues electronically, as easily as with paper, face-to-face, and with ...

#### 7 An analysis of operating system behavior on a simultaneous multithreaded architecture



Joshua A. Redstone, Susan J. Eggers, Henry M. Levy  
November 2000 ACM SIGPLAN Notices, Volume 35 Issue 11  
Publisher: ACM

Full text available: pdf(1.55 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 67, Citation Count: 0

This paper presents the first analysis of operating system execution on a simultaneous multithreaded (SMT) processor. While SMT has been studied extensively over the past 6 years, previous research has focused entirely on user-mode execution. However, ...

## 8 [An analysis of operating system behavior on a simultaneous multithreaded architecture](#)



Joshua A. Redstone, Susan J. Eggers, Henry M. Levy  
December 2000 ACM SIGOPS Operating Systems Review, Volume 34 Issue 5  
Publisher: ACM

Full text available: pdf(227.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 121, Citation Count: 8

This paper presents the first analysis of operating system execution on a simultaneous multithreaded (SMT) processor. While SMT has been studied extensively over the past 6 years, previous research has focused entirely on user-mode execution. However, ...

## 9 [System-level power optimization: techniques and tools](#)



Luca Benini, Giovanni de Micheli  
April 2000 ACM Transactions on Design Automation of Electronic Systems (TODAES), Volume 5 Issue 2  
Publisher: ACM

Full text available: pdf(385.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 670, Citation Count: 68

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic systems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, ...

## 10 [An analysis of operating system behavior on a simultaneous multithreaded architecture](#)



Joshua A. Redstone, Susan J. Eggers, Henry M. Levy  
December 2000 ACM SIGARCH Computer Architecture News, Volume 28 Issue 5  
Publisher: ACM

Full text available: pdf(227.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 121, Citation Count: 8

This paper presents the first analysis of operating system execution on a simultaneous multithreaded (SMT) processor. While SMT has been studied extensively over the past 6 years, previous research has focused entirely on user-mode execution. However, ...

11 [Process cruise control: event-driven clock scaling for dynamic power management](#)



Andreas Weissel, Frank Bellosa

October 2002 CASES '02: Proceedings of the 2002 international conference on Compilers, architecture, and synthesis for embedded systems

Publisher: ACM

Full text available: pdf(161.01 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 93, Citation Count: 12

Scalability of the core frequency is a common feature of low-power processor architectures. Many heuristics for frequency scaling were proposed in the past to find the best trade-off between energy efficiency and computational performance. With complex ...

Keywords: clock scaling, event counters, power management, scheduling

12 [Operating system support for high-speed communication](#)



Peter Druschel

September 1996 Communications of the ACM, Volume 39 Issue 9

Publisher: ACM

Full text available: pdf(313.01 KB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 71, Citation Count: 3

13 [Trap-driven memory simulation with Tapeworm II](#)



Richard Uhlig, David Nagle, Trevor Mudge, Stuart Sechrest

January 1997 ACM Transactions on Modeling and Computer Simulation (TOMACS), Volume 7 Issue 1

Publisher: ACM

Full text available: pdf(630.91 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 33, Citation Count: 0

Keywords: Cache, TLB, memory system, simulation, trace-driven simulation, trap-driven simulation

14 [An Internet-based negotiation server for e-commerce](#)

Stanley Y.W. Su, Chunbo Huang, Joachim Hammer, Yihua Huang, Haifei Li, Liu Wang, Youzhong Liu, Charnyote Pluempitiwiriwajew, Minsoo Lee, Herman Lam

August 2001 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 10 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(355.19 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 136, Citation Count: 7

This paper describes the design and implementation of a replicable, Internet-based negotiation server for conducting bargaining-type negotiations between enterprises involved in e-commerce and e-business. Enterprises can be buyers and sellers of products/services ...


Keyw ords: Constraint evaluation, Cost- benefit analysis, Database, E-commerce, Negotiation policy and strategy, Negotiation protocol

15 Learning through participatory simulations: network-based design for systems learning in classrooms

Uri Wilensky, Walter Stroup

December 1999 CSCL '99: Proceedings of the 1999 conference on Computer support for collaborative learning

Publisher: International Society of the Learning Sciences

Full text available:  pdf(205.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 146, Citation Count: 1

This project brings together two lines of researchóthe study of complex dynamic systems and the use of participatory simulations as a powerful way into systems modelingóboth of which can be enabled and advanced through emerging network ...

Keyw ords: collaboration, complex systems, computer-supported collaboration, emergent phenomena, graphing calculators, math education, modeling, science education, simulation, systems thinking


16 A case study in software adaptation



Giuseppe Valetto, Gail Kaiser

November 2002 WOSS '02: Proceedings of the first workshop on Self-healing systems

Publisher: ACM

Full text available:  pdf(1.45 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 65, Citation Count: 5

We attach a feedback-control-loop infrastructure to an existing target system, to continually monitor and dynamically adapt its activities and performance. (This approach could also be applied to "new" systems, as an alternative to "building in" adaptation ...

Keyw ords: coordination, distributed systems, dynamic adaptation, dynamic reconfiguration, perpetual testing, software process enactment, workflow


17 Chimera: hypermedia for heterogeneous software development enviroments



Kenneth M. Anderson, Richard N. Taylor, E. James Whitehead, Jr.

July 2000 ACM Transactions on Information Systems (TOIS), Volume 18 Issue 3


Publisher: ACM

Full text available:  pdf(864.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 55, Citation Count: 20

Emerging software development environments are characterized by heterogeneity: they are composed of diverse object stores, user interfaces, and tools. This paper presents an approach for providing hypermedia services in this heterogeneous setting. Central ...

Keyw ords: heterogeneous hypermedia, hypermedia system architectures, link servers, open hypermedia systems, software development environments

-  [A model of OASIS role-based access control and its support for active security](#)  
Jean Bacon, Ken Moody, Walt Yao  
November 2002 ACM Transactions on Information and System Security (TISSEC),  
Volume 5 Issue 4

Publisher: ACM


Full text available:  [pdf\(352.06 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 319, Citation Count: 24


OASIS is a role-based access control architecture for achieving secure interoperation of services in an open, distributed environment. The aim of OASIS is to allow autonomous management domains to specify their own access control policies and to interoperate ...

Keyw ords: Certificates, OASIS, RBAC, distributed systems, policy, role-based access control, service-level agreements

- 19 [A case study of hardware and software synthesis in ForSyDe](#)

-  Zhonghai Lu, Ingo Sander, Axel Jantsch  
October 2002 I SSS '02: Proceedings of the 15th international symposium on System  
Synthesis

Publisher: ACM


Full text available:  [pdf\(99.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 13, Citation Count: 2

ForSyDe (FORMal SYstem DEsign) is a methodology which addresses the design of SoC applications which may contain control as well as data flow dominated parts. Starting with a formal system specification, which captures the functionality of the system, ...

Keyw ords: design methodology, hardware synthesis, software synthesis, system design

- 20 [Context-aware multimedia computing in the intelligent hospital](#)

-  Scott Mitchell, Mark D. Spiteri, John Bates, George Coulouris  
September 2000 EW 9: Proceedings of the 9th workshop on ACM SIGOPS European  
workshop: beyond the PC: new challenges for the operating system

Publisher: ACM

Full text available:  [pdf\(721.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)





Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 67, Citation Count: 2

This paper describes an application middleware that addresses the requirement for immediate high-quality multimedia communications in environments where users' work practices exhibit a large degree of physical mobility. A modern hospital is one such ...

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